

TECHNICAL DATA SHEET

ALab™ dFlow-Pro Electronic Bottle-Top Dispenser

Electronic bottle-top dispenser • three models spanning 0.01–50 mL • six dispensing modes • 10-level speed control • ISO 8655 quality standard



ACS Material ALab™ dFlow-Pro Electronic Bottle-Top Dispenser

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SECTION I

Product Overview

The ALab™ dFlow-Pro Electronic Bottle-Top Dispenser is a touchscreen-controlled electronic bottle-top dispenser for reagent delivery and small-scale filling. Three models cover working ranges from 0.01 mL to 50 mL. Six dispensing modes are supported — manual fixed-volume, automatic fixed-volume, automatic multi-step, manual free, custom programs and titration — with 10-level aspiration and dispensing speed control. A 4.3-inch 800 × 480 colour touchscreen supports program setup, and the instrument stores 1000 experiment records. Bluetooth and Wi-Fi functions are included, and PC interfaces are Type-C and Wi-Fi. A built-in rotary valve gives 0–90° rotation with venting and reagent recirculation. Quality standard: ISO 8655; dispensing accuracy complies with ISO 8655-5 (Section III).

SECTION II

Core Advantages

- Six dispensing modes — manual fixed-volume, automatic fixed-volume, automatic multi-step, manual free, custom programs and titration
- Touchscreen programming — 4.3-inch 800 × 480 colour screen; capacity for 1000 experiment records
- Consumable-free design — no consumable replacement required, with a simple structure that keeps routine maintenance low
- Bluetooth and Wi-Fi functions — PC interfaces are Type-C and Wi-Fi; battery capacity 3500 mAh

SECTION III

Specifications

Technical data

Specifications	
Working Range	By model — see the table below
Dispensing Modes	Six · manual fixed-volume · automatic fixed-volume · automatic multi-step · manual free · custom · titration
Speed Control	10 levels, aspiration and dispensing
Display / Data Records	4.3-inch TFT colour touchscreen, 800 × 480 · 1000 experiment records
Connectivity / Power	Bluetooth and Wi-Fi functions · PC interface Type-C and Wi-Fi · battery capacity 3500 mAh
Rotary Valve	Built-in, 0–90° rotation, with venting and reagent recirculation
Drying Tube / Window Options	Standard drying tube for reagents sensitive to moisture and CO ₂ · window options transparent or amber, amber intended for light-sensitive liquids
Operating Temperature Range	10 °C–30 °C
Quality Standard	ISO 8655 · accuracy complies with ISO 8655-5
Weight · Dimensions · Power	1.2 kg · dimensions and power supply: confirm at quotation

Models, working ranges and working accuracy

dFlow-Pro 10 mL · ALDFLP01	0.01–10 mL · max. transfer 25 mL · min. 10 µL — systematic ±50 µL (±0.5% at 10 mL, ±1.0% at 5 mL, ±5.0% at 1 mL); random ±30 µL (±0.3%, ±0.6%, ±3.0%)
dFlow-Pro 25 mL · ALDFLP02	0.02–25 mL · max. transfer 25 mL · min. 20 µL — systematic ±125 µL (±0.5% at 25 mL, ±1.0% at 12.5 mL, ±5.0% at 2.5 mL); random ±62.5 µL (±0.25%, ±0.5%, ±2.5%)
dFlow-Pro 50 mL · ALDFLP03	0.02–50 mL · max. transfer 50 mL · min. 20 µL — systematic ±250 µL (±0.5% at 50 mL, ±1.0% at 25 mL, ±5.0% at 5 mL); random ±125 µL (±0.25%, ±0.5%, ±2.5%)

Dispensing accuracy complies with ISO 8655-5. At the three listed measured volumes for each model the absolute systematic and random error values are the same, while the corresponding percentage values increase as the measured volume decreases. Accuracy values are provided only for the measured volumes shown.

Scope of delivery

- Sales unit: 1 unit
- Drying tube: standard; absorbent not specified
- Bottle thread, adapters, power supply and charger: confirm at quotation
- Package contents and configuration: confirm at quotation
- Window configuration: confirm at quotation
- Options and spare parts: confirm at quotation

SECTION IV**Applications**

Typical applications for the ALab™ dFlow-Pro Electronic Bottle-Top Dispenser include:

- Liquid dispensing and sample handling in research laboratories
- Small-scale filling and light industrial dispensing; adaptable for connection to automation systems
- Titration, volumetric flask preparation and pH adjustment
- Moisture- and CO₂-sensitive reagents via the drying tube; light-sensitive liquids via the amber window

Product value: three models covering 0.01–50 mL, six dispensing modes including titration, 10-level speed control, a 4.3-inch colour touchscreen and capacity for 1000 experiment records, Bluetooth and Wi-Fi functions with Type-C and Wi-Fi PC interfaces, a 3500 mAh battery, and a built-in 0–90° rotary valve.

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